

## ABSTRACT OF THE DISCLOSURE

5           A system, method and computer program for validating  
a syntactical statement employing a stored syntax tree  
which represents all possible syntax options. The tree  
consists of a network of junction nodes and data nodes  
between a root node and an end node, whereby all paths  
10 through the tree lead to the end node. Firstly, a  
syntactical statement is passed to the root node, where  
it is parsed into elementary tokens. Next, a table is  
created to store the tokens, and entries representing the  
end node of the syntax. The location of a current node in  
15 the syntax tree is also maintained, whereby the current  
node is initially the root node. Then, the potential  
nodes that can be selected from the current node and  
their distances from the current node are returned. The  
potential nodes are then compared to the stored tokens,  
20 and a potential node is selected. Finally, the location  
of the current node is updated and the process is  
repeated until the syntactical statement has been  
validated.